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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,984	09/17/2003	Kuniyuki Tani	50024-018	1958	
7590 05/05/2004			EXAMINER		
MCDERMOTT, WILL & EMERY			WILLIAMS, HOWARD L		
600 13th Street, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER	
washington, D	20003 3070		2819		

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No	Applicant(s)	UV		
Office Action Summary		10/663,98	34	TANI ET AL.			
		Examine	-	Art Unit			
		Howard L		2819			
Period fo	The MAILING DATE of this communic or Reply	cation appears on the	ecover sheet with the	correspondence ac	Idress		
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FC MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions o SIX (6) MONTHS from the mailing date of this commu p period for reply specified above is less than thirly (30) period for reply is specified above, the maximum state tre to reply within the set or extended period for reply w reply received by the Office later than three months aft ed patent term adjustment. See 37 CFR 1.704(b).	CATION. If 37 CFR 1.136(a). In no evinication. If days, a reply within the state of the control of the contro	ent, however, may a reply be tir utory minimum of thirty (30) day ill expire SIX (6) MONTHS from dication to become ABANDONE	mely filed ys will be considered time the mailing date of this of ED (35 U.S.C. § 133).			
Status							
1)	Responsive to communication(s) filed	fon .					
2a) <u> </u>		b)⊠ This action is n	on-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) 2-20 is/are allowed. Claim(s) 1 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	e withdrawn from co			. ••• · · · · · · · · · · · ·		
Applicat	ion Papers						
10)⊠	The specification is objected to by the The drawing(s) filed on <u>17 September</u> . Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	$\frac{2003}{2000}$ is/are: a) \boxtimes attion to the drawing(s) the correction is require	ne held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). Djected to. See 37 C	FR 1.121(d).		
Priority (ınder 35 U.S.C. § 119						
12)⊠ a)i	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies or application from the Internation See the attached detailed Office action	ocuments have bee locuments have bee f the priority docume al Bureau (PCT Rul	en received. en received in Applicati ents have been receive e 17.2(a)).	ion No ed in this National	Stage		
Attachmen	t(s)						
	e of References Cited (PTO-892)	0.049)	4) Interview Summary				
3) 🛛 Infon	e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date <u>013004</u> .		Paper No(s)/Mail D. 5) Notice of Informal F 6) Other:		D-152)		

Application No: 10/663,984 Your Reference: 50024-018

Art Unit 2819

The examiner acknowledges the claim for priority under 35 U.S.C. 119 however certified copies of the Japanese applications 2003-318834 and 2002-275509 have not been received.

The examiner acknowledges the Information Disclosure Statement filed 30 January 2004. An initialed copy of the citation form should accompany this action.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as anticipated by Lim et al. (US 5,635,937). Lim discloses a pipelined analog-to-digital circuit. The Lim et al circuit includes a correction value output circuit (RAM 53) that stores preset correction values and a correction circuit (40, 60) that corrects the digital signal by way of operation based on the correction value output from the correction value circuit.

Claims 2-20 are allowed over the prior art of record because they do not show the selection (presetting) of the correction value for digital value from a subsequent stage (claims 2-7). The art of record also does not show the recited switch arrangements to input the reference voltage equivalents.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ribner (US 5,047,772) and Chuang (US 6,369,744) also disclose digital correction schemes for multi-stage converters.

Any inquiry concerning this communication should be directed to Howard L. Williams at telephone number 571.272.1815. The Patent and Trademark Office has a new central facsimile number for application specific correspondence intended for entry, it is 703-872-9306.

4/30/04 Voice 571.272.1815 Howard L. Williams Primary Examiner Art Unit 2819